

**AMENDMENTS TO THE SPECIFICATION**

**Please replace paragraph [0055] with the following amended paragraph:**

[0055] Specifically, for each state in which the message exchange pattern definition allows a valid transmission message to be transmitted by the test computing system, the code generation computing system automatically generates code that at least simulates transmission of the valid transmission message (act 611). For example, consider the active state 501 of FIG. 5. The active state 501 permits one valid message to be transmitted, a Cancel message. There is indicated to be a 3% ~~change-chance~~ that the cancel message will be transmitted. This percentage may be specified by the message exchange pattern definition and/or may be specified by the user or the code generation computing system. The percentage associated with this transmission may dynamically change over time during the testing process. To simulate the conditional transmission of the Cancel message, the code generation computing system may generate code that follows the following pseudo-code document with line number added for ease of later explanation.